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(71) Applicant (for all designated States except US): **ALTANA PHARMA AG** [DE/DE]; Byk-Gulden-Str. 2, 78467 Konstanz (DE).

(72) Inventor (for BE, BF, BJ, CF, CG, CI, CM, CY, FR, GA, GN, GQ, GR, GW, IE, IT, MC, ML, MR, NE, NL, SI, SN, SZ, TD, TG, VN, YU, ZA, ZM, ZW only): **SCHMIDT, Beate**; Allensbacher Str. 5, 78476 Allensbach (DE).

(72) Inventor (for BE, BF, BJ, CF, CG, CI, CM, CY, FR, GA, GN, GQ, GR, GW, IE, IT, MC, ML, MR, NE, NL, SI, SN, SZ, TD, TG, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW only): **FLOCKERZI, Dieter**; Ackerweg 26, 78476 Allensbach (DE).

(72) Inventors (for BE, BF, BJ, CF, CG, CI, CM, CY, FR, GA, GN, GQ, GR, GW, IE, IT, MC, ML, MR, NE, NL, SI, SN, SZ, TD, TG, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW only): **FLOCKERZI, Dieter**; Ackerweg 26, 78476 Allensbach (DE).

SZ, TD, TG only): **HATZELMANN, Armin**; Alter Wall 3, 78467 Konstanz (DE). **ZITT, Christof**; Mainaustr. 209 D, 78464 Konstanz (DE).

(72) Inventor (for AE, AG, AL, AM, AT, AU, AZ, BA, BB, BE, BF, BG, BJ, BR, BW, BY, BZ, CF, CG, CH, CI, CM, CN, CO, CR, CU, CY, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, FR, GA, GB, GD, GE, GH, GM, GN, GQ, GR, GW, HR, HU, ID, IE, IL, IN, IS, IT, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MC, MD, MG, MK, ML, MN, MR, MW, MX, MZ, NA, NE, NI, NL, NO, NZ, OM, PG, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL only): **BARSIG, Johannes**; Bleichenweg 11, 78467 Konstanz (DE).

(72) Inventors (for BE, BF, BJ, CF, CG, CI, CM, CY, FR, GA, GN, GQ, GR, GW, IE, IT, MC, ML, MR, NE, NL, SI, SN, SZ, TD, TG only): **MARX, Degenhard**; Obere Reute 15, 78345 Moos (DE). **KLEY, Hans-Peter**; Im Weinberg 3b, 78476 Allensbach (DE).

(72) Inventor; and

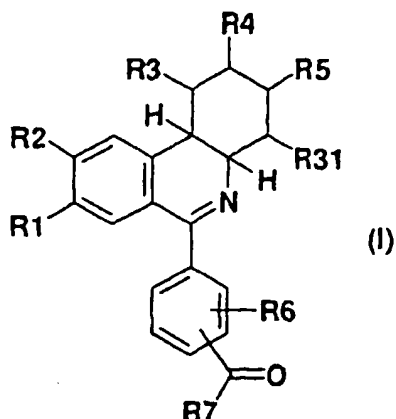
(75) Inventor/Applicant (for US only): **KAUTZ, Ulrich** [DE/DE]; Prof.-Schmider-Str. 12, 78476 Allensbach (DE).

(74) Agents: **WILD, Robert** et al.; c/o Altana Pharma AG, Byk-Gulden-Str. 2, 78467 Konstanz (DE).

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(54) Title: **NOVEL AMIDO-SUBSTITUTED HYDROXY-6-PHENYLPHENANTHRIDINES AND THEIR USE AS PDE4 INHIBITORS**



(57) Abstract: Compounds of formula (I) in which R1 is hydroxyl, 1-4C-alkoxy, 3-7C-cycloalkoxy, 3-7C-cycloalkylmethoxy, 2,2-difluoroethoxy, or completely or predominantly fluorine-substituted 1-4C-alkoxy, R2 is hydroxyl, 1-4C-alkoxy, 3-7C-cycloalkoxy, 3-7C-cycloalkylmethoxy, 2,2-difluoroethoxy, or completely or predominantly fluorine-substituted 1-4C-alkoxy, or in which R1 and R2 together are a 1-2C-alkylenedioxy group, R3 is hydrogen or 1-4C-alkyl, R31 is hydrogen or 1-4C-alkyl, either, in a first embodiment (embodiment a) according to the present invention, R4 is -O-R41, in which R41 is hydrogen, 1-4C-alkyl, 1-4C-alkoxy-1-4C-alkyl, hydroxy-2-4C-alkyl, 1-7C-alkylcarbonyl, or completely or predominantly fluorine-substituted 1-4C-alkyl. and R5 is hydrogen or 1-4C-alkyl, or, in a second embodiment (embodiment b) according to the present invention, R4 is hydrogen or 1-4C-alkyl, and R5 is -O-R51, in which R51 is hydrogen, 1-4C-alkyl, 1-4C-alkoxy-1-4C-alkyl, hydroxy-2-4C-alkyl, 1-7C-alkylcarbonyl, or completely or predominantly fluorine-substituted 1-4C-alkyl, R6 is hydrogen, halogen, 1-4C-alkyl or 1-4C-alkoxy, either, in a first aspect (aspect 1) according to the present invention, R7 is -N(R8)R9, or, in a second aspect (aspect 2) according to the present invention, R7 is

-NH-N(R18)R19, are novel effective PDE4 inhibitors.